



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/780,789	02/18/2004	Ji-Bin Du	250119-1130	2710
24504	7590	02/21/2007	EXAMINER	
THOMAS, KAYDEN, HORSTEMEYER & RISLEY, LLP			TRAN, HENRY N	
100 GALLERIA PARKWAY, NW				
STE 1750			ART UNIT	
ATLANTA, GA 30339-5948			PAPER NUMBER	
			2629	
SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE		
3 MONTHS	02/21/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Office Action Summary	Application No.	Applicant(s)	
	10/780,789	DU ET AL.	
	Examiner Henry N. Tran	Art Unit 2629	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 09 January 2007.

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 1-13 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) 10-13 is/are allowed.

6) Claim(s) 1 and 9 is/are rejected.

7) Claim(s) 2-8 is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
 3) Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
 Paper No(s)/Mail Date. _____.
 5) Notice of Informal Patent Application
 6) Other: _____.

DETAILED ACTION

1. The applicants' Reply received 1/9/07 has been entered. Claims 1-13 remain pending in this application. The Applicants' Remarks/Arguments have been fully considered; and this Office action is in response thereto.

Response to Arguments

2. Applicant's arguments, see pages 8-15 of the Reply filed 1/9/07, with respect to the rejections of claims 1-5, 8-10 and 13 under 35 U.S.C. 102(e) as being anticipated by Kawada et al (U.S. Patent No. 6,703,792) and under 35 U.S.C. 103(a) as being unpatentable over Kawada (U.S. Patent No. 6,703,792) in view of De Zwart et al (U.S. Patent No. 6,512,336) have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground of rejection is made in view of Ishii et al (U.S. Patent No. 6,373,452) as set forth follows.

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 1 and 9 are rejected under 35 U.S.C. 102(e) as being anticipated by Ishii et al (U.S. Patent No. 6,373,452, hereinafter "Ishii").

Regarding claim 1, Ishii teaches a driving method for a plasma display panel (PDP), said PDP comprising a plurality of first common electrodes (even sustain electrodes X2, X4, X6), a plurality of second common electrodes (odd sustain electrodes: X1, X3, X5), a plurality of scanning electrodes (Y1~Y3), a plurality of data electrodes (A), and a plurality of pixel units (10A), wherein the pixel units belonging to a row of odd number (L1, L3, L5) are odd pixel units and are defined by said second common electrodes (X1, X3,...) and said scanning electrodes (Y1~Y3), the pixel units belonging to a row of even number (L2, L4, L6) are even pixel units and are defined by said first common electrodes (X2, X4, X6) and said scanning electrodes (Y1~Y3), and image data of said pixel units is inputted by said data electrodes, see Figs. 18-20, col. 18, line 35-50; said driving method comprising: (a) processing a reset operation, providing an odd-field address period and sequentially making each of voltage differences between said second common electrodes and the corresponding scanning electrodes larger than a discharge threshold voltage, and selectively inputting the image data (Va) to said data electrodes (A) (see Fig. 22; during the reset period: voltage differences $V_{w-0} = V_w > V_{fxy}$); (b) providing an odd-field sustaining-discharge period (sustain discharge period), and inputting a first sustaining discharge pulse (Vs) and a second sustaining discharge pulse (Vs), which are out of phase to each other, respectively to said scanning electrodes and said second common electrodes, see Fig. 22; (c) processing the reset operation providing an even-field address period and sequentially making each of voltage differences between said first common electrodes and said scanning electrodes larger than the discharge threshold voltage, and selectively inputting the image data (Va) to said data electrodes (A), (see Fig. 23: $V_{w-0} = V_w > V_{fxy}$); and (d) providing an even-field sustaining-discharge period and inputting a third sustaining discharge pulse (Vs) and a

fourth sustaining discharge pulse (Vs), which are out of phase to each other, respectively to said scanning electrodes and said first common electrodes, see (see Fig. 23).

Regarding claim 9, Ishii further teaches that each of said odd pixel units and the adjacent even pixel unit corresponding to a same data electrode connected to the address driver 22, see Figs. 18 and 19.

Allowable Subject Matter

5. Claims 10-13 are allowed.
6. Claims 2-8 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

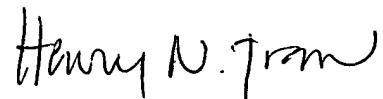
Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. They are U.S. Patents Nos.: 7,079,090 issued to Takeuchi et al., which teaches methods for driving plasma display panel using even and odd fields.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry N. Tran whose telephone number is 571-272-7760. The examiner can normally be reached on M-F 8:00-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin H. Shalwala can be reached on 571-272-7681. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Henry N Tran
Primary Examiner
Art Unit 2629

HT
2/16/07